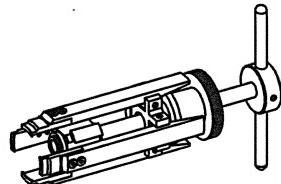
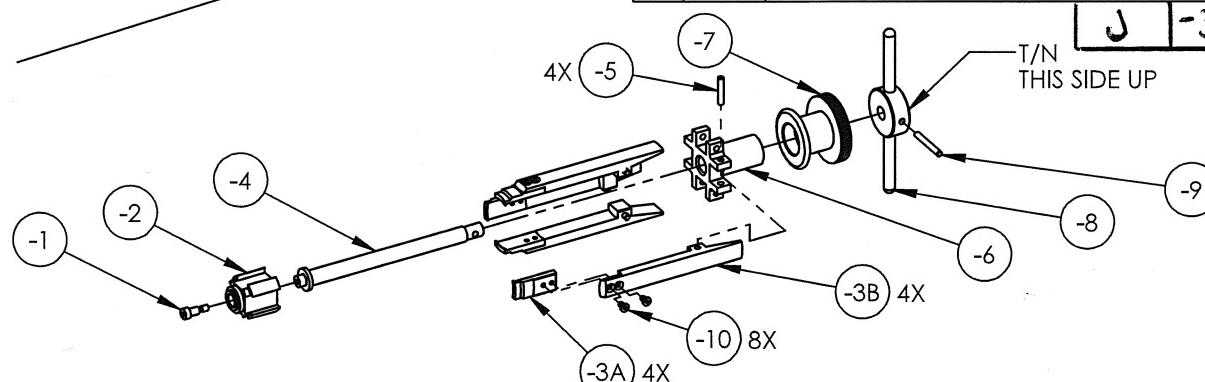


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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		CHANGED -7 C-BORE DEPTH FROM 1/4 TO 7/16. CHANGED -3A TO EXTRACTING 8 PIECES FROM EACH TUBE. -3B CHANGED TO EXTRACTION 7 PIECES FROM TUBE.	11/11/2005	WP	DW
2		-3A CORRECTED O.D. & CHANGED .749 TO .812.	2/18/2006	WP	DW
3		-3A CHANGED DIMENSION .812 TO .850.	3/28/2006	WP	DW
4		-3A CHANGED HEAT TREAT TO OPTIMAL SETTING, WAS RC 36-40.	1/8/2008	WP	DW
5		CREATED NEW FILE WITH NEW PAGE FORMAT, AND ADDED ALL OF THE PART DWG'S, WAS 3A&3B.	3/3/2015	WP	RW
6		ADDED P/N'S BOM -1, -5, -9, -10, SEPARATED PARTS TO INDIVIDUAL PG'S. CH'D DIMENSION TO LOCATE FLAT FROM .188 (x4) TO .460 (x4) & ADDED P.F. -5 TO DOWEL PIN HOLE -3B PER G.E. ADDED RB TO TOOL NUMBER IN TITLEBLOCK.	4/26/2011	RJC	RW
7	15-0051	UPDATED TO NEW DRAFTING STANDARDS. -2 CH'D DIM WAS Ø .374-.376 IS Ø .3750-.3759, -3B CH'D DIMS WAS Ø .2500 IS Ø .1870-.1875 P.F. -5 IS Ø .1859-.1874, REMOVED HEAT TREAT. -4 CH'D DIMS WAS Ø .375 S.F. -2 IS Ø .3734-.3740, WAS Ø .4370-.4375 S.F. -8A IS Ø .4354-.4363, -6 CH'D DIM WAS 4X Ø .1880-.1885 S.F. -5 IS 4X Ø .1886-.1893. -8A CH'D DIMS WAS Ø .1870-.1875 P.F. -9 IS Ø .1884-.1893, WAS Ø .4377-.4382 THRU S.F. -4 IS Ø .4375-.4385 THRU ALL, WAS 2X Ø .3750-.3755 ▽ 1/4 P.F. -8B IS 2X Ø .38 ▽ .25 S.F. -8B. ADDED ENGRAVE NOTE: CH'D TOLERANCE ON NON-CRITICAL DIMENSIONS.	3/3/2015	DPD	JAG
8	16-0218	-2 CH'D DIM WAS Ø .3759-.3750 IS Ø .3759-.3750 (S.F. -4), -3A, -3B, -4, -6, -8 ADDED FINISH SPEC QMSI-6.2.2, B.O. REV D. -3B, -4, -6 CH'D MATERIAL WAS 4140/4142 Q&T IS 4140/4142, ADDED HEAT TREAT RC 28-34. -3B CH'D DIM WAS (Ø .2500) IS Ø .250, WAS 2X Ø .170 THRU ALL △ Ø .36 X Ø 2°, IS 2X Ø .170 THRU ALL △ Ø .31 X Ø 2°, WAS Ø .1874/.1869 THRU Ø .1874/.1869 THRU (P.F. -5). -4 CH'D DIM WAS (Ø .750) IS .75, WAS Ø .3740/.3734 IS Ø .3740/.3734 (S.F. -2), WAS Ø .4363/.4356 IS Ø .4363/.4356 (S.F. -8A), WAS Ø .1874/.1869 THRU ALL IS Ø .1874/.1869 THRU ALL (P.F. -9). -6 CH'D DIM WAS 4X Ø .1893/.1886 THRU ALL IS 4X Ø .1893/.1886 THRU ALL (S.F. -5), WAS 1.13 IS 4X 1.13. -7 CH'D DIM WAS (Ø .2500) IS Ø .22.25, WAS Ø .113 IS 1.25. -8A, -8B CH'D MATERIAL WAS 1018/1020 IS A36/1018/1020 HR. -8A CH'D DIM'S WAS Ø .1625 IS Ø .163, WAS Ø .1893/.1886 THRU ALL IS Ø .1893/.1886 THRU ALL (S.F. -9), WAS Ø .4385/.4375 IS Ø .4385/.4375 (S.F. -4), WAS 2X Ø .38 ▽ .25 S.F. -8B IS 2X Ø .385/.380 ▽ .25 (S.F. -8B). -8B CH'D DIM WAS (Ø .375) S.F. -8A IS Ø .375/.370 (S.F. -8A). -10 ADDED DIM TO MODIFY SCREW HEAD, ADDED DWG.	11/14/2016	RJC	SM

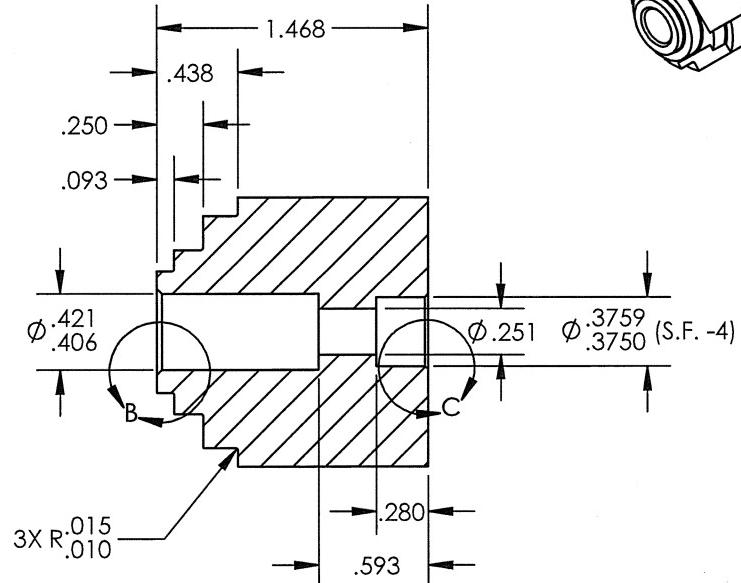
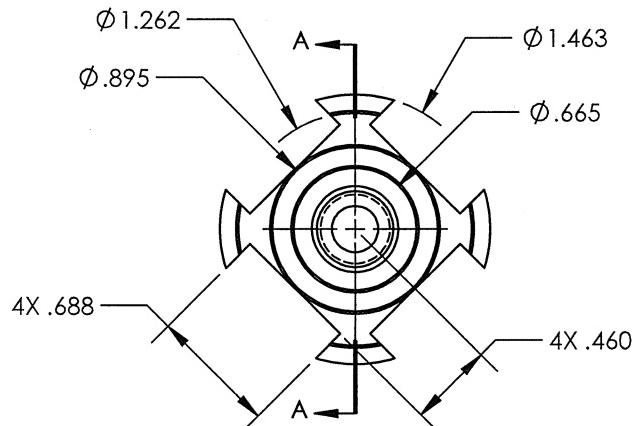
J -3A MAT. S-7 CHANGED FOR O1 WP



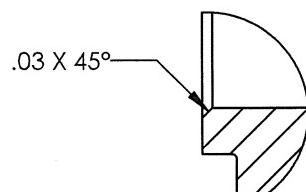
ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.	DART AEROSPACE		
		B/O	-1	1	SOCKET HEAD SHOULDER BOLT	STEEL	Ø 1/4 X 3/8, 10-24 (MCMASTER-CARR #91259A535)	1			
			-2	1	SHOE	BRASS		2			
			-3A	4	FINGER TIP	O1		3			
			-3B	4	FINGER	4140/4142		4			
			-4	1	JACK SCREW	4140/4142		5			
		B/O	-5	4	FINGER DOWEL PIN	STEEL	Ø 3/16 X 1 (MCMASTER-CARR #98381A510)	1	TITLE BEARING PULLER; GAS PRODUCER TURBINE, POWER TURBINE & COMPRESSOR		
			-6	1	ADJUSTING SCREW	4140/4142		6	DWG NO. RB6795590		
			-7	1	ADJUSTING NUT	BRASS		7	REV J		
X			-8	1	TEE HANDLE WELDMENT			8	MATL UNLESS OTHERWISE SPECIFIED		
1			-8A		TEE HANDLE CENTER	A36/1018/1020 HR		9	DIMENSIONS ARE IN INCHES		
2			-8B		TEE HANDLE ROD	A36/1018/1020 HR		10	.XXX ± .005 FRACTIONS ± 1/16"		
		B/O	-9	1	TEE HANDLE DOWEL PIN	STEEL	Ø 3/16 X 1-1/2 (MCMASTER-CARR #98381A514)	1	HEAT TREAT XX ± .01 ANGLES ± 5°		
			-10	8	FLAT HEAD SOCKET CAP SCREW	STEEL	8-32 X 5/16 (MCMASTER-CARR #91253A190) MODIFIED	11	FINISH X ± .1 SURFACES = 125		
ASSY -8									SPEC		
									1. BREAK ALL SHARP EDGES		
									.015 X 45° OR .015R		
									2. DIMENSIONAL LIMITS APPLY		
									AFTER PLATING		
									3. INTERPRET DIM AND TOL PER		
									ASME Y14.5M-2009		
									QA APPR: LINDSAY USED ON MODEL		
									APPROVED: VWT ROLLS ROYCE C18 & C20		
									SCALE 1:6 DATE 4/11/2008 SHEET 1 OF 11		

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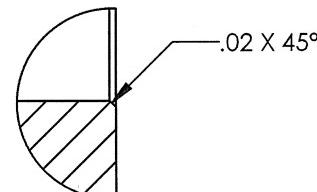
			REVISIONS			
REV	ECR		DESCRIPTION	DATE	INITIAL	APPROVED
6			CH'D DIMENSION TO LOCATE FLAT FROM .188 (x4) TO .460 (x4) PER G.E.	4/26/2011	RJC	
7	15-0051	-2	CH'D DIM WAS Ø.374-.376 IS Ø.3750-.3759.	3/3/2015	DPD	JAG
8	16-0218	-2	CH'D DIM WAS Ø.3759/.3750 IS Ø.3759/.3750 (S.F. -4).	11/14/2016	RJC	SM



SECTION A-A



DETAIL B
SCALE 2 : 1



DETAIL C
SCALE 2 : 1

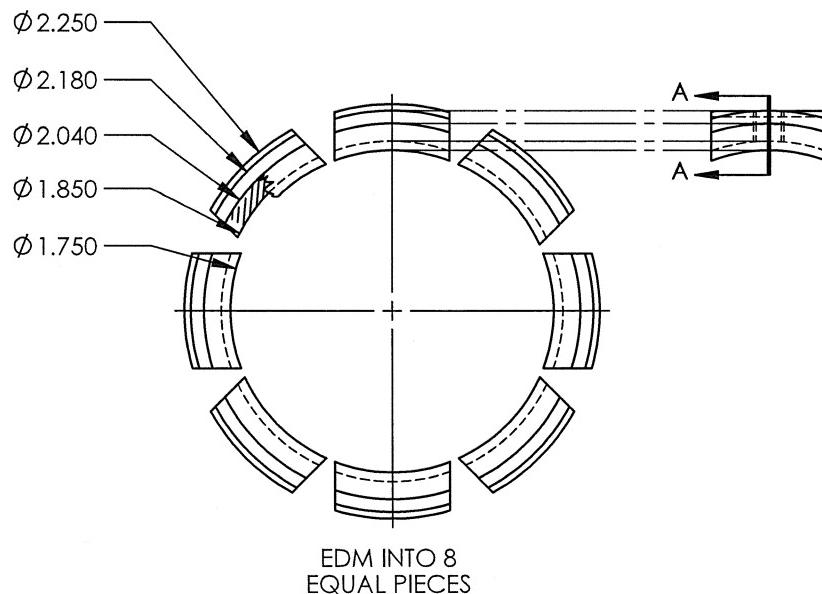
(2)

SHOE

DART AEROSPACE	
TITLE BEARING PULLER; GAS PRODUCER TURBINE, POWER TURBINE & COMPRESSOR	
DWG NO. RB6795590-2 REV J	
MATERIAL BRASS UNLESS OTHERWISE SPECIFIED HEAT FRACTIONS ± 1/8 TREAT ANGLES ± 5° FINISH SURFACES = 125/ SPEC	
DRAWN BY: PERRITT CHECKED: DUERFELDT OPPS APPR: ANDERSON QA APPR: LINDSAY USED ON MODEL APPROVED: MACKOVJAK ROLLS ROYCE C18 & C20	
SCALE 1:1	DATE 4/11/2008
SHEET 2 OF 11	

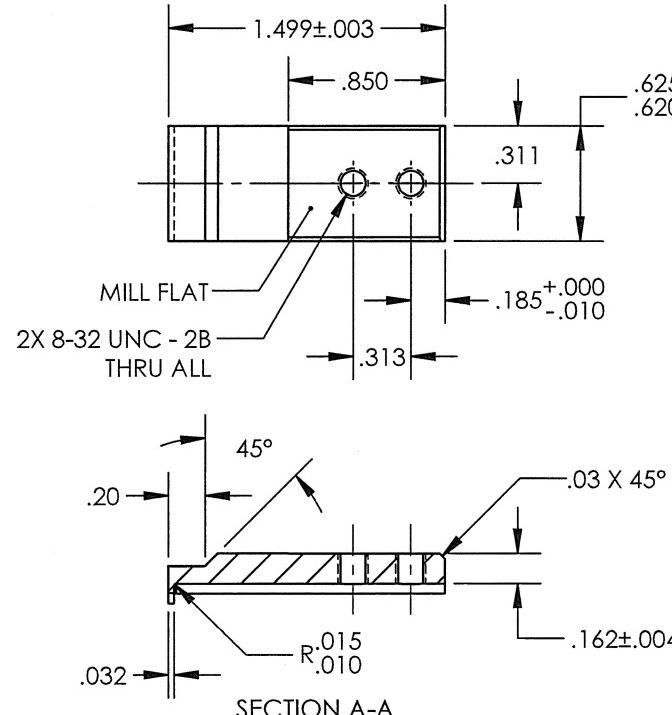
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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		CHANGED -3A TO EXTRACTING 8 PIECES FROM EACH TUBE.	11/11/2005	WP	DW
2		-3A CORRECTED O.D., & CHANGED .749 TO .812.	2/18/2006	WP	DW
3		-3A CHANGED DIMENSION .812 TO .850.	3/28/2006	WP	DW
4		-3A CHANGED HEAT TREAT TO OPTIMAL SETTING, WAS RC 36-40.	1/8/2008	WP	DW
8	16-0218	-3A ADDED FINISH SPEC QMSI-6.2.2, B.O. REV D.	11/14/2016	RJC	SM



(-3A)

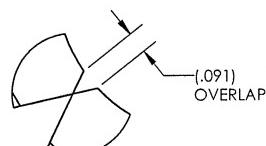
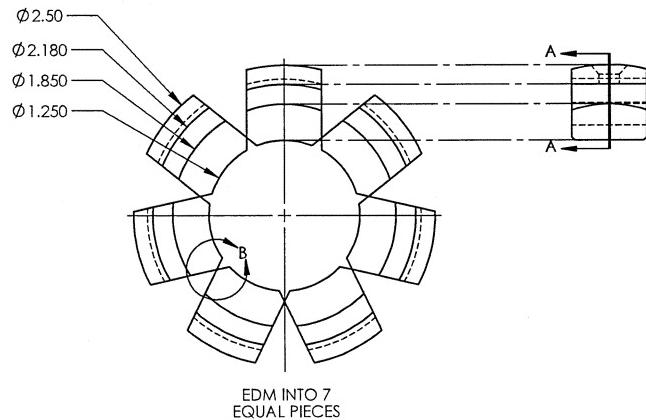
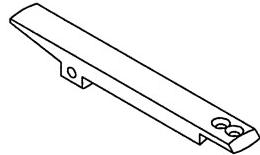
FINGER TIP



DART AEROSPACE	
TITLE BEARING PULLER; GAS PRODUCER TURBINE, POWER TURBINE & COMPRESSOR	
DWG NO. RB6795590-3A	
MATL O1	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT RC 55-60	XXX ± .005 FRACTIONS ± 1/8
FINISH BLACK OXIDE	XX ± .01 ANGLES ± 5°
SPEC QMSI-6.2.2, B.O. REV D	X ± .1 SURFACES = 125
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES .015 X 45° OR .015R
CHECKED: DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: MACKOVJAK	ROLLS ROYCE C18 & C20
SCALE 1:1	DATE 4/11/2008
SHEET 3 OF 11	

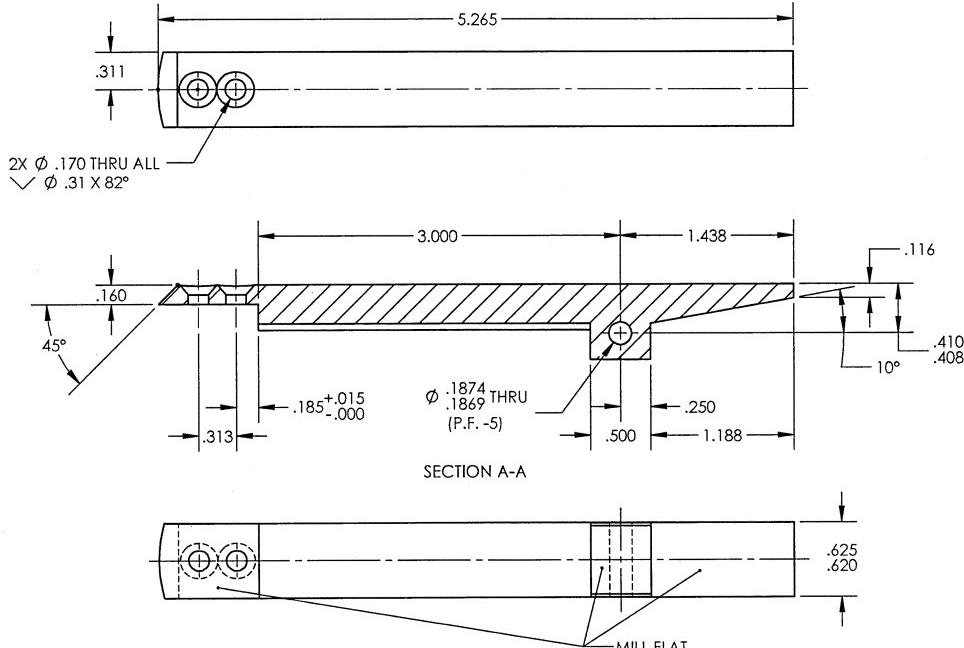
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REVISIONS		DATE	INITIAL	APPROVED
REV	ECR			
1	-3B	11/11/2005	WP	DW
6	ADDED P.F.-5 TO DOWEL PIN HOLE -3B PER G.E.	4/26/2011	RJC	
7	15-0051 TREAT	3/3/2015	DPD	JAG
8	16-0218 .3B CHD DIMS WAS Ø2.500 IS (Ø2.500), WAS Ø.1870-.1875 P.F.-5 IS Ø .1869-.1874, REMOVED HEAT TREAT Ø .31 X .31 X Ø2° WAS Ø.1874/.1869 THRU IS Ø.1874/.1869 THRU (P.F.-5). CHD MATERIAL WAS 4140/4142 Q&T IS 4140/4142, ADDED HEAT TREAT RC 28-34, ADDED FINISH QMSI-4.2.2, B.O. REV D.	11/14/2016	RJC	SM



DETAIL B
SCALE 2 : 1

(-3B)
FINGER



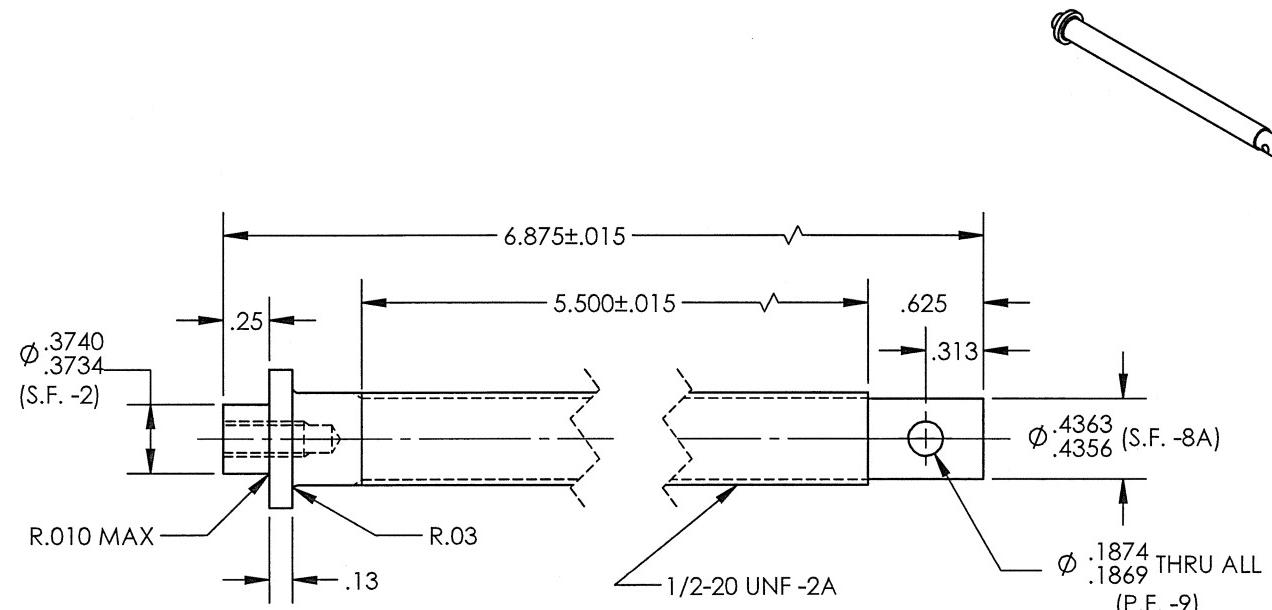
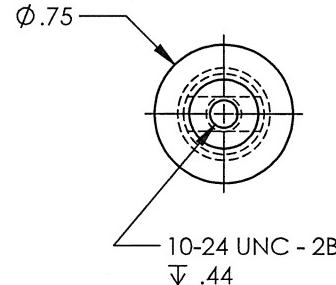
DART AEROSPACE	
TITLE BEARING PULLER: GAS PRODUCER TURBINE, POWER TURBINE & COMPRESSOR	
DWG NO.	RB6795590-3B
MATL	4140/4142
FEAT	RC 28-34
FINISH	BLACK OXIDE
SPEC	QMSI-4.2.2, B.O. REV D
DRAWN BY:	PERRITT
CHECKED:	DUERFELDT
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	MACKOVJAK
SCALE	1:1
DATE	4/11/2008
SHEET	4 OF 11

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
XXX ± .005 FRACTIONS ± 1/8
XX ± .01 ANGLES ± 5°
X ± .01 SURFACES = 125/
1. BREAK ALL SHARP EDGES
.015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY
3. INTERPRET DIM AND TOL PER
ASME Y14.5M-2009
USED ON MODEL

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REVISONS

REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
7	15-0051	-4 CH'D DIMS WAS Ø.375 S.F. -2 IS Ø.3734-3740, WAS Ø.4370-.4375 S.F. -8A IS Ø.4356-.4363.	3/3/2015	DPD	JAG
8	16-0218	-4 CH'D DIM WAS (Ø.750) IS .75, WAS Ø.3740/.3734 IS Ø.3740/.3734 (S.F. -2), WAS Ø.4363/.4356 IS Ø.4363/.4356 (S.F. -8A), WAS Ø.1874/.1869 THRU ALL IS Ø.1874/.1869 THRU ALL (P.F. -9), CH'D MATERIAL WAS 4140/4142 Q&T IS 4140/4142, ADDED HEAT TREAT RC 28-34, ADDED FINISH SPEC QMSI-6.2.2, B.O. REV D.	11/14/2016	RJC	SM

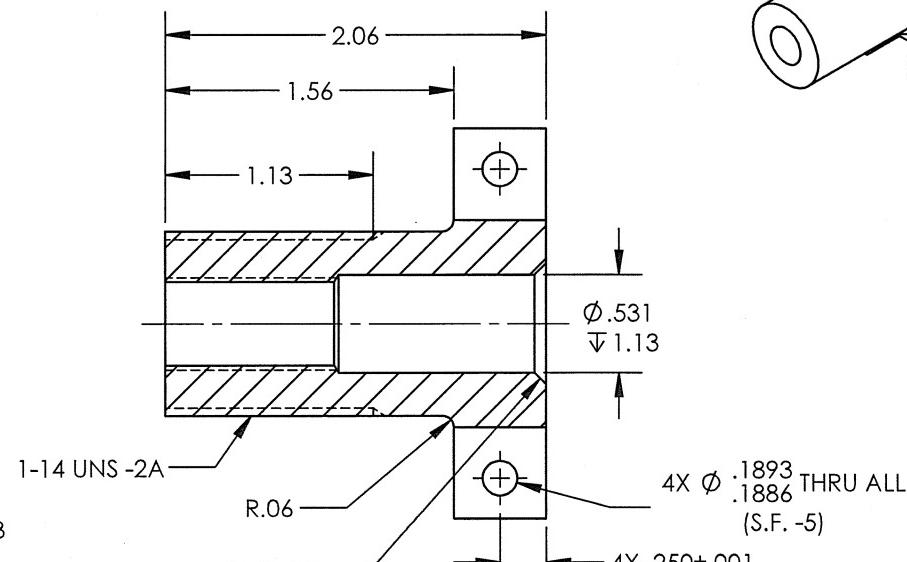
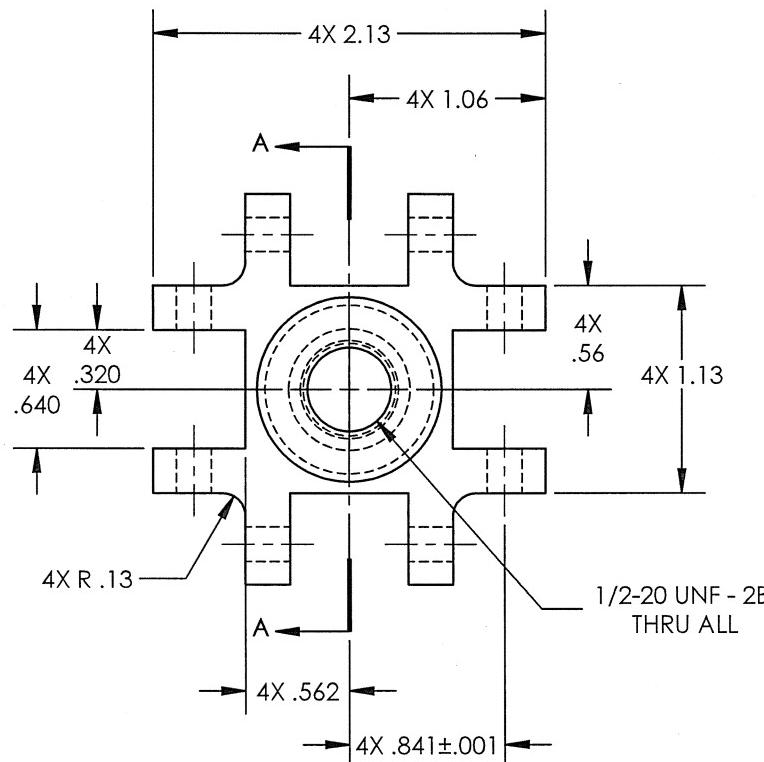


(-4)
JACK SCREW

DART AEROSPACE	
TITLE BEARING PULLER; GAS PRODUCER TURBINE, POWER TURBINE & COMPRESSOR	
DWG NO.	RB6795590-4
MATL 4140/4142 UNLESS OTHERWISE SPECIFIED HEAT TREAT RC 28-34 DIMENSIONS ARE IN INCHES FINISH BLACK OXIDE XXX ± .005 FRACTIONS ± 1/8 SPEC QMSI-6.2.2, B.O. REV D XX ± .01 ANGLES ± 5° DRAWN BY: PERRITT X ± .1 SURFACES = 125/ CHECKED: DUERFELDT 1. BREAK ALL SHARP EDGES OPPS APPR: ANDERSON .015 x 45° OR .015R QA APPR: LINDSAY 2. DIMENSIONAL LIMITS APPLY APPROVED: MACKOVJAK 3. INTERPRET DIM AND TOL PER ROLLS ROYCE C18 & C20 ASME Y14.5M-2009 USED ON MODEL	
SCALE	1:1
DATE	4/11/2008
SHEET 5 OF 11	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
7	15-0051	-6 CH'D DIM WAS 4X Ø.1880-.1885 S.F. -5 IS 4X Ø.1886-.1893.	3/3/2015	DPD	JAG
8	16-0218	-6 CH'D DIM WAS 4X Ø.1893/.1886 THRU ALL IS 4X Ø.1893/.1886 THRU ALL (S.F. -5), WAS 1.13 IS 4X 1.13, CH'D MATERIAL WAS 4140/4142 Q&T IS 4140/4142, ADDED HEAT TREAT RC 28-34, ADDED FINISH SPEC QMSI-6.2.2, B.O. REV D.	11/14/2016	RJC	SM



TITLE BEARING PULLER; GAS PRODUCER
TURBINE, POWER TURBINE & COMPRESSOR

DWG NO.

RB6795590-6

REV J

MATL 4140/4142

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

HEAT TREAT RC 28-34

.XXX ± .005 FRACTIONS ± 1/8

FINISH BLACK OXIDE

.XX ± .01 ANGLES ± 5°

SPEC QMSI-6.2.2, B.O. REV D

X ± .1 SURFACES = 125°

DRAWN BY: PERRITT

1. BREAK ALL SHARP EDGES
.015 X 45° OR .015R

CHECKED: DUERFELDT

2. DIMENSIONAL LIMITS APPLY
AFTER PLATING

OPPS APPR: ANDERSON

3. INTERPRET DIM AND TOL PER
ASME Y14.5M-2009

QA APPR: LINDSAY

USED ON MODEL

APPROVED: MACKOVJAK

ROLLS ROYCE C18 & C20

SCALE 1:1

DATE 4/11/2008

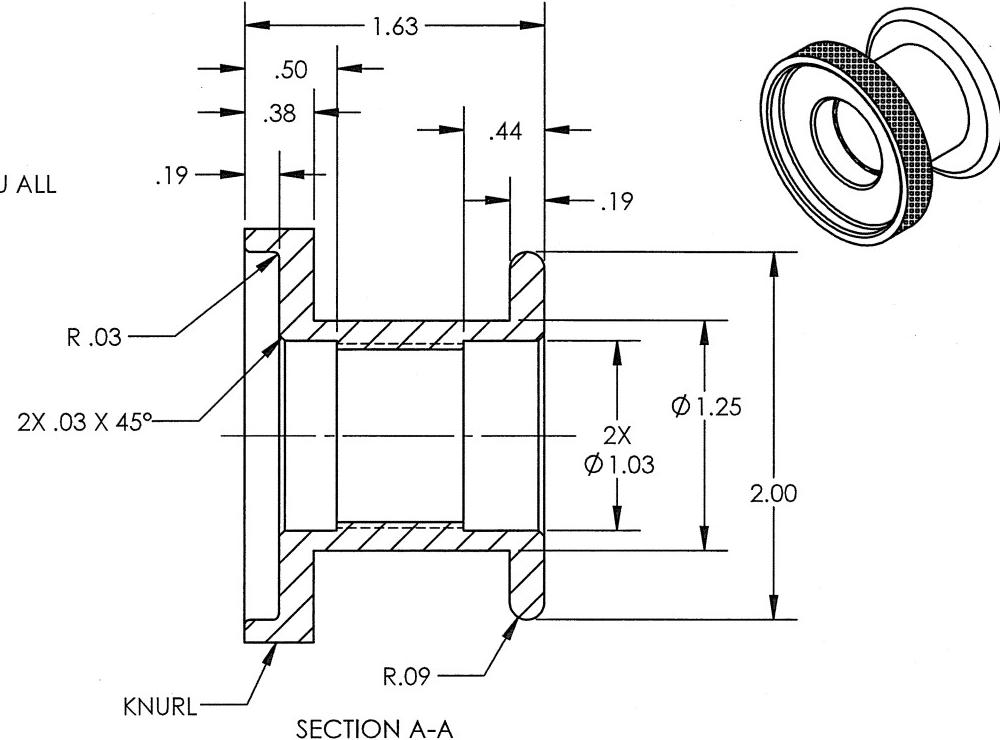
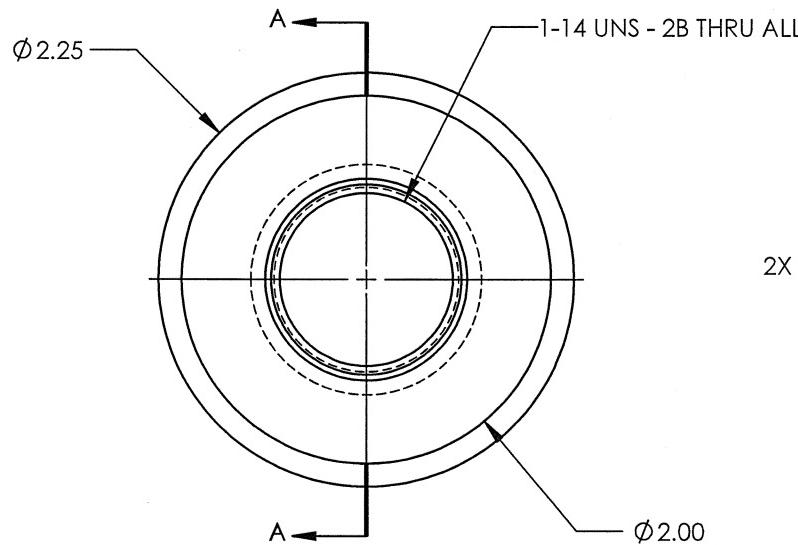
SHEET 6 OF 11

(-6)

ADJUSTING SCREW

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REVISIONS				DATE	INITIAL	APPROVED
REV	ECR	DESCRIPTION				
1		CHANGED -7 C-BORE DEPTH FROM 1/4 TO 7/16.		11/11/2005	WP	DW
8	16-0218	-7 CH'D DIM WAS $\varnothing 2.250$ IS $\varnothing 2.25$, WAS $\varnothing 1.13$ IS 1.25.		11/14/2016	RJC	SM



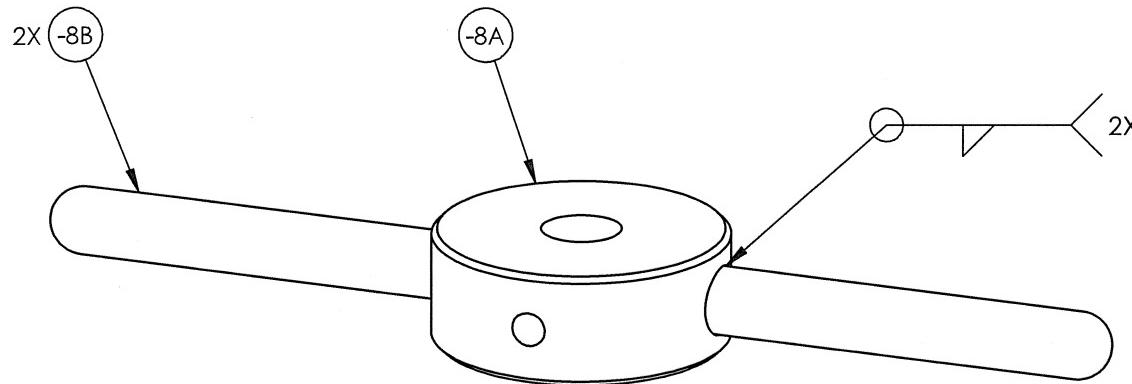
(-7)

ADJUSTING NUT

DART AEROSPACE	
TITLE BEARING PULLER; GAS PRODUCER TURBINE, POWER TURBINE & COMPRESSOR	
DWG NO. RB6795590-7 REV J	
MATERIAL BRASS UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT XXX ± .005 FRACTIONS ± 1/8 TREAT XX ± .01 ANGLES ± 5° FINISH X ± .1 SURFACES = 125/	
SPEC	
DRAWN BY: PERRITT	USED ON MODEL
CHECKED: DUERFELDT	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: MACKOVJAK	ROLLS ROYCE C18 & C20
SCALE 1:1	DATE 4/11/2008
SHEET 7 OF 11	

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REVISIONS					
REV	ECR		DESCRIPTION	DATE	INITIAL
8	16-0218	-8	ADDED FINISH SPEC QMSI-6.2.2, B.O. REV D.	11/14/2016	RJC SM



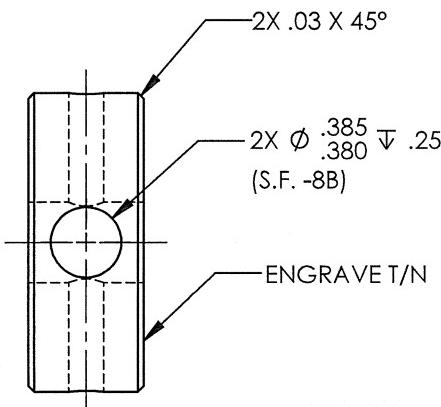
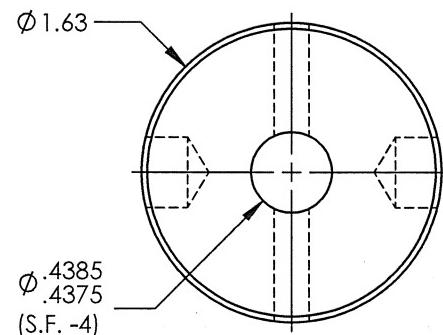
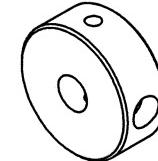
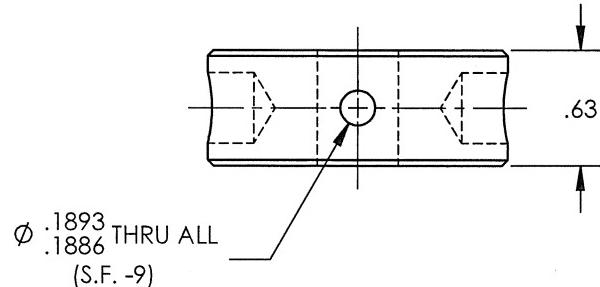
TEE HANDLE WELDMENT

(8)

DART AEROSPACE	
TITLE BEARING PULLER; GAS PRODUCER TURBINE, POWER TURBINE & COMPRESSOR	
DWG NO. RB6795590-8	
MAT'L UNLESS OTHERWISE SPECIFIED HEAT DIMENSIONS ARE IN INCHES TREAT FRACTIONS $\pm \frac{1}{8}$ FINISH BLACK OXIDE ANGLES $\pm .5^\circ$ SPEC QMSI-6.2.2, B.O. REV D SURFACES = 125/ DRAWN BY: PERRITT CHECKED: DUERFELDT OPPS APPR: ANDERSON QA APPR: LINDSAY USED ON MODEL APPROVED: MACKOVJAK ROLLS ROYCE C18 & C20 SCALE 1:1 DATE 4/11/2008 SHEET 8 OF 11	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
7	15-0051	-8A CH'D DIM'S WAS Ø.1870-.1875 P.F. -9 IS Ø.1886-.1893, WAS Ø.4377-.4382 THRU S.F. -4 IS Ø.4375-.4385 THRU ALL, WAS 2X Ø.3750-.3755 V 1/4 P.F. -8B IS 2X Ø.38 V.25 S.F. -8B. ADDED ENGRAVE NOTE.	3/3/2015	DPD	JAG
8	16-0218	-8A CH'D DIM'S WAS Ø1.625 IS Ø1.63, WAS Ø.1893/.1886 THRU ALL IS Ø.1893/.1886 THRU ALL (S.F. -9), WAS Ø.4385/.4375 IS Ø.4385/.4375 (S.F. -4), WAS 2X Ø.38 V.25 S.F. -8B IS 2X Ø.385/.380 V.25 (S.F. -8B). CH'D MATERIAL WAS 1018/1020 IS A36/1018/1020 HR.	11/14/2016	RJC	SM



(-8A)

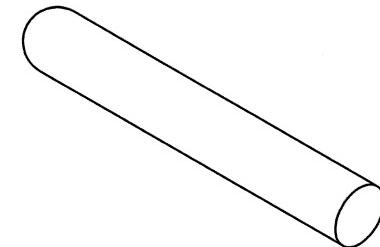
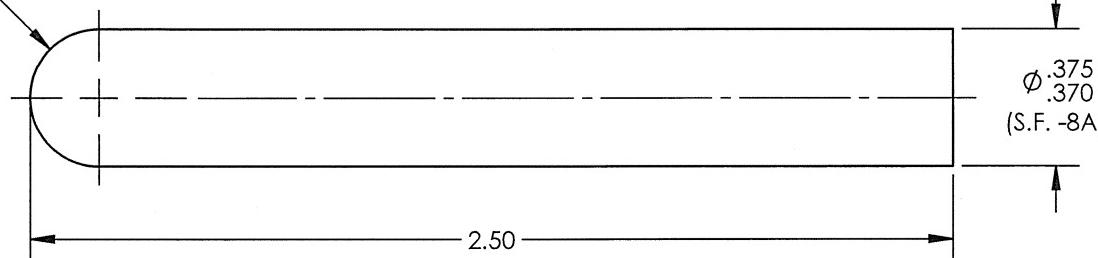
TEE HANDLE CENTER

DART AEROSPACE	
TITLE BEARING PULLER; GAS PRODUCER TURBINE, POWER TURBINE & COMPRESSOR	
DWG NO. RB6795590-8A	
MATL A36/1018/1020 HR	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT XXX ± .005 FRACTIONS ± 1/8	
TREAT XX ± .01 ANGLES ± 5°	
FINISH SEE -8 WELDMENT X ± .1 SURFACES = 125	
SPEC	
DRAWN BY:	PERRITT
CHECKED:	DUERFELDT
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	MACKOVJAK
SCALE	1:1
DATE	4/11/2008
USED ON MODEL	
ROLLS ROYCE C18 & C20	
ASME Y14.5M-2009	
SHEET 9 OF 11	

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REVIEWS				DATE	INITIAL	APPROVED
REV	ECR	DESCRIPTION				
8	16-0218	-8B CH'D DIM WAS $(\varnothing .375)$ S.F. -8A IS $\varnothing .375/.370$ (S.F. -8A), CH'D MATERIAL WAS 1018/1020 IS A36/1018/1020 HR.		11/14/2016	RJC	SM

SR.19



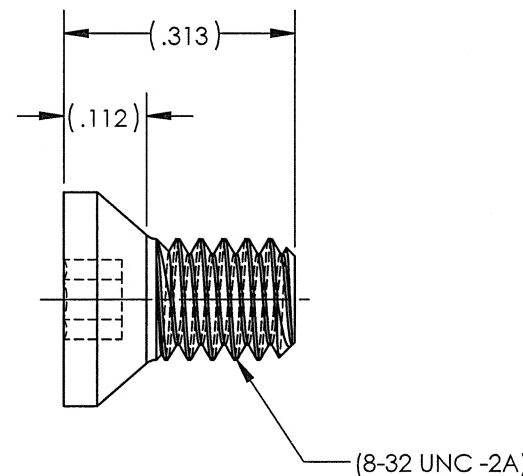
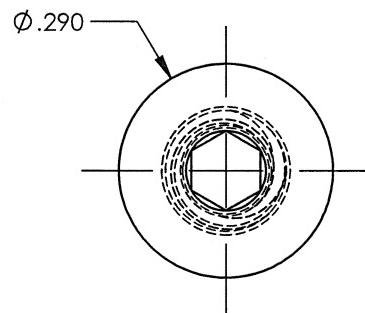
TEE HANDLE ROD

-8B

DART AEROSPACE	
TITLE BEARING PULLER; GAS PRODUCER TURBINE, POWER TURBINE & COMPRESSOR	
DWG NO. RB6795590-8B	
MAT'L A36/1018/1020 HR UNLESS OTHERWISE SPECIFIED HEAT DIMENSIONS ARE IN INCHES TREAT FRACTIONS $\pm 1/8$ FINISH SEE -8 WELDMENT XX $\pm .005$ SPEC X $\pm .01$ ANGLES $\pm 5^\circ$ DRAWN BY: PERRITT X $\pm .1$ SURFACES = 125 CHECKED: DUERFELDT OPPS APPR: ANDERSON QA APPR: LINDSAY APPROVED: MACKOVJAK USED ON MODEL SCALE 2:1 DATE 4/11/2008 SHEET 10 OF 11	

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REVISIONS					
REV	ECR		DESCRIPTION	DATE	INITIAL
8	16-0218	-10	ADDED DIM TO MODIFY SCREW HEAD, ADDED DWG.	11/14/2016	RJC JAG



FLAT HEAD SOCKET CAP SCREW

(-10)

DART AEROSPACE	
TITLE BEARING PULLER; GAS PRODUCER TURBINE, POWER TURBINE & COMPRESSOR	
DWG NO. RB6795590-10 REV J	
MATL STEEL UNLESS OTHERWISE SPECIFIED HEAT DIMENSIONS ARE IN INCHES TREAT FRACTIONS ± 1/8 FINISH BLACK OXIDE XX ± .005 ANGLES ± .5° SPEC QMSI-6.2.2, B.O. REV D X ± .1 SURFACES = 125 ✓ DRAWN BY: CLOUGH CHECKED: DUERFELDT OPPS APPR: ANDERSON QA APPR: LINDSAY USED ON MODEL APPROVED: MACKOVJAK ROLLS ROYCE C18 & C20 SCALE 4:1 DATE 11/14/2016 SHEET 11 OF 11	